INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/015733

A.	CLA	SSIFICATI	ON OF	SUBJECT	MATTER
		- 7			_

Int.Cl⁷ C12N15/56, 9/24, 1/15, 1/19, D06M16/00, C11D3/386, 7/42, D21H11/20, 25/18, A23K1/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ Cl2N15/56, 9/24, 1/15, 1/19, D06M16/00, Cl1D3/386, 7/42,
D21H11/20, 25/18, A23K1/12

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

GenBank/EMBL/DDBJ/GeneSeq, SwissProt/PIR/GeneSeq, BIOSIS/WPI(DIALOG),

JSTPlus(JICST)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X/A	JP 11-502701 A (Novo Nordisk A/S), 09 March, 1999 (09.03.99), Particularly, Claims 72, 82 to 104; sequence Nos. 8, 9 & WO 96/29397 A1 & EP 815209 A & US 6001639 A & US 6387690 B1 & US 2003/0054539 A1	6-25/1-5
X/A	WO 00/24879 Al (Meiji Seika Kaisha, Ltd.), 04 May, 2000 (04.05.00), Particularly, Claims 1 to 85 & EP 1123974 Al	6-28/1-5
X/A	WO 01/90375 A1 (Meiji Seika Kaisha, Ltd.), 29 November, 2001 (29.11.01), Particularly, Claims 1 to 29 & EP 1291431 A1	6-28/1-5

* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document published prior to the international filing date but later than the priority date claimed "E" later document published after the international filing date or priority date and not in conflict with the application but cited to understance the principle or theory underlying the invention cannot be considered novel or cannot be considered to involve an invention cannot be step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family			
to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or	or priority		
filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than	Jorstania		
cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than	considered novel or cannot be considered to involve an inventive		
special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than document published prior to the international filing date but later than			
"P" document published prior to the international filing date but later than being obvious to a person skilled in the art	ument is		
To the state of th			
Date of the actual completion of the international search Date of mailing of the international search report	Date of mailing of the international search report 14 December, 2004 (14.12.04)		
18 November, 2004 (18.11.04) 14 December, 2004 (14.12.04)			
Name and mailing address of the ISA/ Authorized officer	Authorized officer		
Japanese Patent Office			
Facsimile No.	Telephone No.		
Form PCT/ISA/210 (second sheet) (January 2004)			